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- 1 11. The method of surveillance of claim 1, wherein the materials are collected in a
2 predetermined pattern, and brought to a central location.
- 1 12. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,
2 biological, or radiological agent comprises comparing a level of chemical, biological or
3 radiological agent to a normal level of a chemical, biological or radiological agent.
- 1 13. The method of surveillance of claim 12, wherein the normal level of a chemical,
2 biological or radiological agent comprises background noise.
- 1 14. The method of surveillance of claim 12, wherein the normal level of a chemical,
2 biological or radiological agent is ascertained from a second sample domain.
- 1 15. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,
2 biological, or radiological agent comprises detecting an increase in a level of chemical,
3 biological or radiological agent relative to an earlier assay.
- 1 16. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,
2 biological, or radiological agent comprises detecting a decrease in a level of chemical,
3 biological or radiological agent relative to an earlier assay.
- 1 17. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,
2 biological, or radiological agent comprises introducing *Tetrahymena pyriformis* to the
3 sample.
- 1 18. The method of surveillance of claim 17, wherein the sample is assayed for *Bacillus*
2 *anthracis*.

- 1 19. The method of surveillance of claim 17, wherein the sample is assayed for *Bacillus*
2 *thuringiensis*.
- 1 20. The method of surveillance of claim 1, wherein the sample is assayed for *Bacillus*
2 *thuringiensis*.
- 1 21. The method of surveillance of claim 20, wherein the *Bacillus thuringiensis* is UV-
2 resistant.
- 1 22. The method of surveillance of claim 1, wherein collection integrity is preserved.
- 1 23. The method of surveillance of claim 1, comprising obtaining and assaying a sample from
2 within a collection bin.
- 1 24. The method of claim 23, comprising placing an assaying device in communication with
2 the collection bin.
- 1 25. A method of surveillance, which method comprises: isolating a sample, which sample
2 comprises debris or fluids that result from rinsing an instrumentality used in a collection
3 of materials from a sample domain, and assaying the sample for the presence of a
4 chemical, biological, or radiological agent.
- 1 26. A method of surveillance, which method comprises: 
- 2 (a) isolating a sample from a sample domain, which sample comprises debris or fluids
3 that result from rinsing an instrumentality used in the collection of materials from the
4 sample domain, and wherein the sample domain comprises a collection of materials on a
5 regular, systematic basis through a predetermined, traceable route, the predetermined
6 traceable rout converging on a centralized location;
- 7 (b) assaying the sample for the presence of a chemical, biological, or radiological agent
8 using PCR technology, radiation detector technology, spectrometry technology, or
9 radioimmunoassay technology;
- 10 (c) determining a result based on the assay; and

- 1 35. The method for determining the presence of a *Bacillus* spore of claim 34, wherein the first
2 membrane and/or the second membrane is at a temperature effective to kill vegetative
3 bacteria.
- 1 36. The method for determining the presence of a *Bacillus* spore of claim 35, wherein the
2 temperature effective to kill the vegetative bacteria is about 70 °C to about 80 °C.